

WHAT IS CLAIMED IS:

1. An injection molded resin gear comprising:
a rim having teeth on an outer periphery thereof;
a hub for receiving therein a shaft; and
a web connecting said rim to said hub,
wherein a bottom of said rim has a smaller thickness
than that of said web.

2. An injection molded resin gear as set forth in claim
1, wherein the thickness of the bottom of said rim is smaller
than the thickness of said web in the vicinity of a connecting
portion of said rim to said web.

3. An injection molded resin gear as set forth in claim
1, which further comprises an annular circumferential rib
formed on said web, said circumferential rib protruding
concentrically with said rim and hub, and wherein a
relationship between the thickness (t_1) of the bottom of
said rim, the thickness (t_2) of the web and a thickness
(t_3) of said circumferential rib is $t_1 \leq t_3 < t_2$.

4. An injection molded resin gear as set forth in claim
1, which further comprises an annular circumferential rib
formed on said web nearer to said hub than said rim, said
circumferential rib protruding concentrically with said
rim and hub, and wherein said injection molded resin gear
is formed by injecting a molten resin from a plurality of
pin point gates which are arranged at regular intervals
in circumferential directions of said circumferential rib.

5. An injection molded resin gear as set forth in claim
1, which further comprises a resin guiding protrusion for
guiding a molten resin, which is injected from a pin point
gate, to said hub, said resin guiding protrusion protruding
from an outer periphery of said hub on one side of said
web so as to correspond to said pin point gate.

6. An injection molded resin gear as set forth in claim 1, which further comprises a plurality of annular circumferential ribs formed on said web, said circumferential ribs protruding concentrically with said rim and hub, at least adjacent two of said plurality of circumferential ribs being connected to each other by a plurality of radial ribs extending in radial directions, and wherein a relationship between the thickness (t_1) of the bottom of said rim, the thickness (t_2) of the web and a thickness (t_3) of at least one of said circumferential ribs is $t_1 \leq t_3 < t_2$.

7. An injection molded resin gear as set forth in claim 1, which further comprises a detent formed on said web, said detent engaging a gear driving member, which rotates with said shaft, to allow said injection molded resin gear to rotate with said gear driving member.

8. An injection molded resin gear as set forth in claim 7, wherein said detent is a radial rib.

9. An injection molded resin gear comprising:
a rim;
a hub; and
a web connecting said rim to said hub, said web having a plurality of annular circumferential ribs which surround said hub concentrically with each other, at least adjacent two of said circumferential ribs being connected to each other in radial directions by means of a plurality of radial ribs which are arranged at regular intervals in circumferential directions,

wherein said injection molded resin gear is formed by injecting a molten resin from a plurality of pin point gates arranged at regular intervals on a circle, which is arranged concentrically with said hub, nearer to said hub than said adjacent two of said circumferential ribs,

said radial ribs being formed so as to be displaced

from a straight line which radially extends from a rotation center of said gear via each of said pin point gates and so as to be displaced from a straight line which passes through the rotation center of said gear and a center between adjacent two of said pin point gates, and

no radial rib is formed between one of said circumferential ribs, which is nearest to said pin point gates, and said pin point gates.

10. An injection molded resin rotating body comprising:
a substantially cylindrical rim;
a hub for receiving therein a shaft; and
a web connecting said rim to said hub,
wherein a thinnest portion of said rim has a smaller thickness than that of said web.

11. An injection molded article comprising:
an outer cylindrical portion;
an inner cylindrical portion for receiving therein a shaft; and
a disk-shaped portion connecting said outer cylindrical portion to said inner cylindrical portion,
wherein said outer cylindrical portion has a smaller thickness than that of said disk-shaped portion.